Author Index of Volume 72

Adachi, D., 173
Allaoud, S., L1
Alper, H., 143
Arai, H., 253
Aramendía, M. A., 221
Arteaga, A., 85
Arteaga, G., 85
Augustine, R. L., 229

Bachelier, J., 127
Bajaj, H. C., 271
Bala, M., 13
Basset, J.-M., L7, 331, 337, 374
Basso-Bert, M., 47
Bauer, R., 67
Benharref, A., L1
Bhadbhade, M. M., 271
Bhatt, K. N., 139
Bied-Charreton, C., 181
Borau, V., 221
Brunet, J.-J., L21
Büchner, W., 299
Buffon, R., L7
Bunia, I., 351

Carfagna, C., 19
Castanet, Y., L1
Cenini, S., 283
Chatterjee, D., 13, 271
Chaudhari, R. V., 153
Choplin, A., L7
Choren, E., 85
Choukroun, R., 47
Crotti, C., 283

Daorong Yu, 209
Datta, R., 97
Delmon, B., 307

Eguchi, K., 253
El-Chaar, L., 85
El Firdoussi, L., L1
El Kassmi, A., 299
Escobar, G. P., 243

Fache, E., 331, 337
Fache, F., 299
Fondor, A., 351
Frostin-Rio, M., 181

Galarini, R., L11, 19
Ganzerla, R., 75
Gaudemer, A., 181
Gervais, D., 47
Graziani, M. 243
Guisheng Li, L15
Guliński, J., 167
Guo, X. X., 307

Hajouji, H., L21
Halligudi, S. B., 139
Héraud, G., 299
Hernández, J. O., 85
Herrmann, W. A., L7

Imanaka, T., L27
Ishihara, T., 253
Izumi, Y., 37

James, B. R., 167
Jiménez, C., 221

Kaneda, K., L27
Karim, A., L1
Kašpar, J., 75, 243
Kawano, M., 173
Kayacsa, A., 351
Kazansky, V. B., 1, 117
Kelkar, A. A., 153
Khan, N. H., 139
Kondoh, H., 37
Kong-Chang Chen, 59
Krishnaratnam, M., 13
Kuwahara, H., L27

Larpent, C., 315
Lavalley, J.-C., 127
Leconte, M., L7
Lei Shi, 209
Lemaire, M., 299
Lenarda, M., 75
Li, C., 307
Li, P., 143

Marinas, J. M., 221
Maxim, S., 351
Mortreux, A., L1
Musco, A., L11, 19

Ndjanga, J.-C., L21
Neibecker, D., L21

Ogura, K., 173
Okura, I., 263
O'Leary, S. T., 229

Patil, R. P., 153
Patin, H., 315
Petit, F., L1
Pontellini, R., L11
Porta, F., 283

Qi-Lin Zhou, 59
Qi Shen, 209

Ragaini, F., 283
Raje, A. P., 97
Raoult, Y., 47
Rempel, G. L., 193
Renwu Yang, 209
Ruiz, P., 307

Sánchez, J., 85
Santano, C., 221
Santi, R., L11, 19
Santini, C., 331, 337
Satoh, Y., 37
Saur, O., 127
Schwartz, J., 373
Scott, P. J., 193
Sempere, M. E., 221
Senocq, F., 331, 337
Shelimov, B. N., 1, 117
Shijian Liao, 209
Shimoda, M., 263
Shirin, Z., 271
Shoushan Chen, L15
Shukla, R. S., 361
Shuwen Yu, 209
Siddiqui, M. R. H., 271
Storaro, L., 75

Taqui Khan, M. M., 13, 139, 271, 361
Tarnaud, E., 181

Tollari, S., 283
Touroude, R., L7
Trovarelli, A., 75, 243

Urabe, K., 37

Venkatasubramanian, K., 271
Vikulov, K. A., 1, 117

Waqif, M., 127
Werner, H. A. F., 67

Xiangyao Gruo, 193
Xin, Q., 307

Yanlong Qian, L15
Yao-Zeng Huang, L15
Yoshikuni, T., 29

Zanoni, R., 75
Zheng-Hua Zhu, 59
Zhiyu Chen, 209

Subject Index of Volume 72

Acetoxylation
and methoxylation of terpenic olefins catalysed by Pd(II), L1
Acetylmethionine
D,L-; optical resolution of, with immobilized aminoacylase on acrylic supports, 351
Acidic properties
and stability of sulphate-promoted metal oxides, 127
Acrylic supports
optical resolution of D,L-acetylmethionine with immobilized aminoacylase on, 351
Activation
'Electrophilic activation of C–H bonds of alkanes with supported Rh(H)(allyl) species revisited: reaction of H_2 with bis-allyl Rh grafted to silica surface':
comments on, 373
response to comments on, 374
Adsorbed species
inhibition of formation and removal of, in isobutene–methacrolein SnO_2–Sb_2O_4 system, 307
Alcohols
carbonylation of ethanol using homogeneous Ir complex catalysts: kinetic study, 153
copolymerization of 5-(4′-acrylamido phenyl)-10,15,20-tritolylporphyrin with styrene, 4-vinylpyridine and 1-vinylimidazole: complexation of Co and Cu by copolymers and application in oxidation of 2,6-di-t-butylphenol by molecular oxygen, 181
Aldehyde
efficient syntheses of hydroxybenzaldehyde derivatives by oxygen oxidation, 29
homogeneous catalysis in water: catalytic hydrogenation of propionaldehyde with $(RuCl_2L_2)_2$, $RuHClL_3$, $RuH(OAc)L_3$, RuH_2L_4, $RuHIL_3$, $RuCl_2(CO)_2L_2$ and $[Ru(OAc)(CO)_2L)]_2$ ($L = P(C_6H_4\text{–}mSO_3Na)_3 \cdot 3H_2O$):
kinetic investigation of salt effect in water, 337
Alkanes
bis(diphenylphosphino)methane complexes of Pd as catalysts for hydrosilylation of olefins by trichlorosilane, 167
catalyst characterization by probe reaction: cyclopropane hydrogenolysis and benzene hydrogenation on Pt–alumina catalysts, 85
'Electrophilic activation of C–H bonds of alkanes with supported Rh(H)(allyl) species revisited: reaction of H_2 with bis-allyl Rh grafted to silica surface':
comments on, 373
response to comments on, 374
further study on reaction mechanism of propane hydroxylation with *Methylosinus trichosporium* (OB3b), 263
oxidation of, with hydrogen peroxide catalysed by Fe salts or Fe oxide colloids in reverse microemulsions, 315
Alkenes, Olefins
acetoxylation and methoxylation of terpenic olefins catalysed by Pd(II), L1
activity and stability of ion-exchange resin-supported tetrakis(triethyl phosphite)nickel hydride catalyst: vapour phase isomerization of n-butene, 97
bis(diphenylphosphino)methane complexes of Pd as catalysts for hydrosilylation of, by trichlorosilane, 167
catalytic epoxidation of, by effective monooxygenase system: Ru(III)–EDTA–ascorbate–O_2, 361
catalytic hydrogenation of diene polymers: kinetic analysis and mechanistic studies on hydrogenation of styrene–butadiene copolymers in presence of $RhCl(PPh_3)_3$, 193
formation of $Mo{=}CH_2$ carbene complex on surface of photoreduced silica–

molybdena catalyst treated with 1,3,5-cycloheptatriene, 117
hydrogenation of 1-alkenes by gas-phase hydrogen transfer, 221
hydrogenation and isomerization of, with diphenylphosphinomethyl hydride zirconium, $[Cp_2ZrH(CH_2PPh_2)]_n$, selective homogeneous catalyst, 47
inhibition of formation and removal of adsorbed species in isobutene–methacrolein SnO_2–Sb_2O_4 system, 307
nitrosyl ethylenediaminetetraacetato Ru(III) — efficient oxygen atom transfer agent for oxidation of, by molecular O_2 and PhIO through ligand-mediated nitrosyl/nitro couple, 271
polymer-bound Rh carbonyl cluster catalysts, new, containing two functional ligands for hydrohydroxymethylation of, L27
reaction of allyl acetates and ketene silyl acetals catalysed by Pd(0) complexes: cyclopropanation *vs.* allylic alkylation, 19
ring-substituted cyclopentadienyltitanium complexes $(C_5H_4CR^1R^2Ar)_2TiCl_2$: efficient catalyst precursors for stereoselective conversion of terminal olefins to (2*E*)-alkenes, L15
surface organometallic chemistry of Re: attempts to characterize surface carbene in metathesis of, with catalyst CH_3ReO_3/Nb_2O_5, L7
vapour phase hydroformylation of ethylene and propene catalysed by Rh-containing Al pillared smectite clay, 75

Alkylation
allylic, *vs.* cyclopropanation; reaction of allyl acetates and ketene silyl acetals catalysed by Pd(0) complexes, 19

Alloys
importance of surface hydrogen concentration in enhancing activity of Co–Ni alloy catalyst for CO hydrogenation, 253

Aluminium
catalyst characterization by probe reaction: cyclopropane hydrogenolysis and benzene hydrogenation on Pt–alumina catalysts, 85
vapour phase hydroformylation of ethylene and propene catalysed by Rh-containing Al pillared smectite clay, 75

Aminoacylase
immobilized; optical resolution of D,L-acetylmethionine with, on acrylic supports, 351

Antimony
inhibition of formation and removal of adsorbed species in isobutene–methacrolein SnO_2–Sb_2O_4 system, 307

Aromatic compounds
acetoxylation and methoxylation of terpenic olefins catalysed by Pd(II), L1
aromatic nucleophilic substitution on thiophene rings, 299
asymmetric synthesis of alkyl 2-arylalkanoates by cross-coupling reactions catalysed by Pd complexes, L11
bis(diphenylphosphino)methane complexes of Pd as catalysts for hydrosilylation of olefins by trichlorosilane, 167
catalyst characterization by probe reaction: cyclopropane hydrogenolysis and benzene hydrogenation on Pt–alumina catalysts, 85
catalytic hydrogenation of diene polymers: kinetic analysis and mechanistic studies on hydrogenation of styrene–butadiene copolymers in presence of $RhCl(PPh_3)_3$, 193
copolymerization of 5-(4′-acrylamido phenyl)-10,15,20-tritolylporphyrin with styrene, 4-vinylpyridine and 1-vinylimidazole: complexation of Co and Cu by copolymers and application in oxidation of 2,6-di-t-butylphenol by molecular oxygen, 181
efficient syntheses of hydroxybenzaldehyde derivatives by oxygen oxidation, 29
hydrogenation and isomerization of olefins with diphenylphosphinomethyl hydride zirconium, $[Cp_2ZrH(CH_2PPh_2)]_n$, selective homogeneous catalyst, 47
nitrosyl ethylenediaminetetraacetato Ru(III) — efficient oxygen atom transfer agent for oxidation of olefins by molecular O_2 and PhIO

through ligand-mediated nitrosyl/nitro couple, 271
reductive carbonylation of nitrobenzene catalysed by heteropolyanion-modified Pd, 37
Ru carbonyl-catalysed deoxygenation by CO of *o*-substituted nitrobenzenes: synthesis of benzimidazoles, 283
Ru(III)–Schiff base complex-catalysed carbonylation of nitrobenzene to give phenylurethane, 139
Arylation
Heck: use of supported Pd catalysts for; heterogeneous catalysis in organic chemistry, 229
Ascorbate
catalytic epoxidation of olefins by effective monooxygenase system: Ru(III)–EDTA–ascorbate–O_2, 361
Ascorbic acid
L-; photosensitized reduction of N_2 by $Ru^{II}(bipy)_3^{2+}$ adsorbed on surface of $Pt/TiO_2/RuO_2$ semiconductor particulate system containing Ru^{III}–EDTA complex and, 13

Bond energy
determination of Mo=C bond energy in $Mo{=}CH_2$ carbene complexes on surface of photoreduced silica–molybdena catalysts based on calorimetric measurements, 1

Calorimetric measurements
determination of Mo=C bond energy in $Mo{=}CH_2$ carbene complexes on surface of photoreduced silica-molybdena catalysts based on, 1
Carbonyl
new polymer-bound Rh, cluster catalysts containing two functional ligands for hydrohydroxymethylation of olefins, L27
Ru carbonyl-catalysed deoxygenation by CO of *o*-substituted nitrobenzenes: synthesis of benzimidazoles, 283
unsaturated, compounds; chemoselective hydrogenation of, over Groups 8 and 9 titania-supported metal catalysts, 243
Carbonylation
of ethanol using homogeneous Ir complex catalyst: kinetic study, 153
reductive, of nitrobenzene catalysed by heteropolyanion-modified Pd, 37
Ru(III)–Schiff base complex-catalysed, of nitrobenzene to give phenylurethane, 139
CO
hydrogenation; importance of surface hydrogen concentration in enhancing activity of Co–Ni alloy catalyst for, 253
Ru carbonyl-catalysed deoxygenation by, of *o*-substituted nitrobenzenes: synthesis of benzimidazoles, 283
CO_2
dark catalytic reduction of, over photopretreated NiO/ksgr catalyst, 173
Cobalt
-catalysed oxidation of ethers using oxygen, 143
copolymerization of 5-(4′-acrylamido phenyl)-10,15,20-tritolylporphyrin with styrene, 4-vinylpyridine and 1-vinylimidazole: complexation of Co and Cu by copolymers and application in oxidation of 2,6-di-t-butylphenol by molecular oxygen, 181
importance of surface hydrogen concentration in enhancing activity of Co–Ni alloy catalyst for CO hydrogenation, 253
Colloids
oxidation of alkanes with hydrogen peroxide catalysed by Fe salts or Fe oxide colloids in reverse microemulsions, 315
Copolymerization
of 5-(4′-acrylamido phenyl)-10,15,20-tritolylporphyrin with styrene, 4-vinylpyridine and 1-vinylimidazole: complexation of Co and Cu by copolymers and application in oxidationof2,6-di-t-butylphenolbymolecular oxygen, 181
Copper
copolymerization of 5-(4′-acrylamido phenyl)-10,15,20-tritolylporphyrin with styrene, 4-vinylpyridine and 1-vinylimidazole: complexation of Co and Cu by copolymers and application in oxidation of 2,6-di-t-butylphenol by molecular oxygen, 181
Cross-coupling reactions
asymmetric synthesis of alkyl 2-arylalkanoates by, catalysed by Pd complexes, L11

Cyclopropanation
vs. allylic alkylation; reaction of allyl acetates and ketene silyl acetals catalysed by Pd(0) complexes, 19

Deoxygenation
Ru carbonyl-catalysed, by CO of *o*-substituted nitrobenzenes: synthesis of benzimidazoles, 283
Diels–Alder reactions
catalysed by lanthanide chlorides, 209

Electron transfer
new mechanism for, between methyl viologen radicals and water, 67
Epoxidation
catalytic, of olefins by effective monooxygenase system: Ru(III)–EDTA–ascorbate–O_2, 361
Ethers
Co-catalysed oxidation of, using oxygen, 143

Groups 8 and 9 metal catalysts
titania-supported; chemoselective hydrogenation of unsaturated carbonyl compounds over, 243

Heck arylation
use of supported Pd catalysts for; heterogeneous catalysis in organic chemistry, 229
Hydroformylation
vapour phase, of ethylene and propene catalysed by Rh-containing Al pillared smectite clay, 75
Hydrogen
'Electrophilic activation of C–H bonds of alkanes with supported Rh(H)(allyl) species revisited: reaction of H_2 with bis-allyl Rh grafted to silica surface':
comments on, 373
response to comments on, 374
importance of surface hydrogen concentration in enhancing activity of Co–Ni alloy catalyst for CO hydrogenation, 253
Hydrogenation
of 1-alkenes by gas-phase hydrogen transfer, 221
benzene, and cyclopropane hydrogenolysis on Pt–alumina catalysis: catalyst characterization by probe reaction, 85
catalytic asymmetric, using Rh complexes of DIPPOP, a chiral ligand bearing two phospholyl moieties, L21
catalytic, of diene polymers: kinetic analysis and mechanistic studies on hydrogenation of styrene–butadiene copolymers in presence of $RhCl(PPh_3)_3$, 193
catalytic, of propionaldehyde with $(RuCl_2L_2)_2$, $RuHClL_3$, $RuH(OAc)L_3$, RuH_2L_4, $RuHIL_3$, $RuCl_2(CO)_2L_2$ and $[Ru(OAc)(CO)_2L)]_2$ ($L=P(C_6H_4\text{-}mSO_3Na)_3\cdot 3H_2O$): kinetic investigation of salt effect in water; homogeneous catalysis in water, 337
chemoselective, of unsaturated carbonyl compounds over Groups 8 and 9 titania-supported metal catalysts, 243
CO; importance of surface hydrogen concentration in enhancing activity of Co–Ni alloy catalyst for, 253
and isomerization of olefins with diphenylphosphinomethyl hydride zirconium, $[Cp_2ZrH(CH_2PPh_2)]_n$, selective homogeneous catalyst, 47
Hydrogenolysis
cyclopropane, and benzene hydrogenation on Pt–alumina catalysts; catalyst characterization by probe reaction, 85
Hydrogen peroxide
oxidation of alkanes with, catalysed by Fe salts or Fe oxide colloids in reverse microemulsions, 315
Hydrogen transfer
gas-phase; hydrogenation of 1-alkenes by, 221
Hydrohydroxymethylation
new polymer-bound Rh carbonyl cluster catalysts containing two functional ligands for, of olefins, L27
Hydrosilylation
bis(diphenylphosphino)methane complexes of Pd as catalysts for, of olefins by trichlorosilane, 167
Hydroxylation
propane; further study on reaction mechanism of, with *Methylosinus trichosporium* (OB3b), 263

Iridium
carbonylation of ethanol using homogeneous Ir complex catalyst: kinetic study, 153
Iron
chiral iron porphyrin-catalysed asymmetric oxidation of sulphides, 59
oxidation of alkanes with hydrogen peroxide catalysed by Fe salts or Fe oxide colloids in reverse microemulsions, 315
Isomerization
and hydrogenation of olefins with diphenylphosphinomethyl hydride zirconium, $[Cp_2ZrH(CH_2PPh_2)]_n$, selective homogeneous catalyst, 47
vapour phase, of n-butene; activity and stability of ion-exchange resin-supported tetrakis(triethyl phosphite)nickel hydride catalyst, 97

Lanthanum
Diels–Alder reactions catalysed by lanthanide chlorides, 209

Metathesis
attempts to characterize surface carbene in, of olefins with catalyst CH_3ReO_3/Nb_2O_5; surface organometallic chemistry of Re, L7
Methoxylation
and acetoxylation of terpenic olefins catalysed by Pd(II), L1
Methylosinus trichosporium (OB3b)
further study on reaction mechanism of propane hydroxylation with, 263
Methyl viologen radicals
and water; new mechanism for electron transfer between, 67
Microemulsions
reverse; oxidation of alkanes with hydrogen peroxide catalysed by Fe salts or Fe oxide colloids in, 315
Molybdenum
determination of Mo=C bond energy in $Mo=CH_2$ carbene complexes on surface of photoreduced silica–molybdena catalysts based on calorimetric measurements, 1
formation of $Mo=CH_2$ carbene complex on surface of photoreduced silica–molybdena catalyst treated with 1,3,5-cycloheptatriene, 117

Monooxygenase system
effective: catalytic epoxidation of olefins by; Ru(III)–EDTA–ascorbate–O_2, 361

Nickel
activity and stability of ion-exchange resin-supported tetrakis(triethyl phosphite)nickel hydride catalyst: vapour phase isomerization of n-butene, 97
dark catalytic reduction of CO_2 over photo-pretreated NiO/ksgr catalyst, 173
importance of surface hydrogen concentration in enhancing activity of Co–Ni alloy catalyst for CO hydrogenation, 253
Niobium
surface organometallic chemistry of Re: attempts to characterize surface carbene in metathesis of olefins with catalyst CH_3ReO_3/Nb_2O_5, L7
Nitrosyl/nitro couple
ligand-mediated; nitrosyl ethylenediaminetetraacetato Ru(III) — efficient oxygen atom transfer agent for oxidation of olefins by molecular O_2 and PhIO through, 27

Olefins: see Alkenes
Optical resolution
of D,L-acetylmethionine with immobilized aminoacylase on acrylic supports, 351
Oxidation
of alkanes with hydrogen peroxide catalysed by Fe salts or Fe oxide colloids in reverse microemulsions, 315
chiral iron porphyrin-catalysed asymmetric, of sulphides, 59
Co-catalysed, of ether using oxygen, 143
copolymerization of 5-(4′-acrylamido phenyl)-10,15,20-tritolyporphyrin withstyrene,4-vinylpyridineand1-vinylimidazole: complexation of Co and Cu by copolymers and application in oxidation of 2,6-di-t-butylphenol by molecular oxygen, 181
nitrosyl ethylenediaminetetraacetato Ru(III) — efficient oxygen atom transfer agent for, of olefins by molecular O_2 and PhIO through

ligand-mediated nitrosyl/nitro couple, 271
oxygen; efficient syntheses of hydrobenzaldehyde derivatives by, 29
Oxygen
catalytic epoxidation of olefins by effective monooxygenase system: Ru(III)–EDTA–ascorbate–O_2, 361
Co-catalysed oxidation of ether using, 143
copolymerization of 5-(4′-acrylamido phenyl)-10,15,20-triolylporphyrin with styrene, 4-vinylpyridine and 1-vinylimidazole: complexation of Co and Cu by copolymers and application in oxidation of 2,6-di-t-butylphenol by molecular oxygen, 181
nitrosyl ethylenediaminetetraacetato Ru(III) — efficient oxygen atom transfer agent for oxidation of olefins by molecular O_2 and PhIO through ligand-mediated nitrosyl/nitro couple, 271
oxidation; efficient syntheses of hydrobenzaldehyde derivatives by, 29

Palladium
acetoxylation and methoxylation of terpenic olefins catalysed by Pd(II), L1
asymmetric synthesis of alkyl 2-arylalkanoates by cross-coupling reactions catalysed by Pd complexes, L11
bis(diphenylphosphino)methane complexes of, as catalysts for hydrosilylation of olefins by trichlorosilane, 167
heterogeneous catalysis in organic chemistry: use of supported Pd catalysts for Heck arylation, 229
reaction of allyl acetates and ketene silyl acetals catalysed by Pd(0) complexes: cyclopropanation *vs.* allylic alkylation, 19
reductive carbonylation of nitrobenzene catalysed by heteropolyanion-modified Pd, 37
Platinum
catalyst characterization by probe reaction: cyclopropane hydrogenolysis and benzene hydrogenation of Pt–alumina catalysts, 85
photosensitized reduction of N_2 by $Ru^{II}(bipy)_3^{2+}$ adsorbed on surface of $Pt/TiO_2/RuO_2$ semiconductor particulate system containing Ru^{III}–eDTA complex and L-ascorbic acid, 13
Polymers
catalytic hydrogenation of diene polymers: kinetic analysis and mechanistic studies on hydrogenation of styrene–butadiene copolymer in presence of $RhCl(PPh_3)_3$, 193
new polymer-bound Rh carbonyl cluster catalysts containing two functional ligands for hydrohydroxymethylation of olefins, L27
Porphyrin
chiral iron porphyrin-catalysed asymmetric oxidation of sulphides, 59
copolymerization of 5-(4′-acrylamido phenyl)-10,15,20-tritolylporphyrin with styrene, 4-vinylpyridine and 1-vinylimidazole: complexation of Co and Cu by copolymers and application in oxidation of 2,6-di-t-butylphenol by molecular oxygen, 181
Probe reaction
catalyst characterization by: cyclopropane hydrogenolysis and benzene hydrogenation on Pt–alumina catalysts, 85

Reduction
dark catalytic, of CO_2 over photopretreated NiO/ksgr catalyst, 173
photosensitized, of N_2 by $Ru^{II}(bipy)_3^{2+}$ adsorbed on surface of $Pt/TiO_2/RuO_2$ semiconductor particulate system containing Ru^{III}–EDTA complex and L-ascorbic acid, 13
Resin
activity and stability of ion-exchange resin-supported tetrakis(triethyl phosphite)nickel hydride catalyst: vapour phase isomerization of n-butene, 97
Rhenium
surface organometallic chemistry of: attempts to characterize surface carbene in metathesis of olefins with catalyst CH_3ReO_3/Nb_2O_5, L7
Rhodium
catalytic asymmetric hydrogenation using Rh complexes of DIPPOP, a chiral ligand bearing two phospholyl moieties, L21
catalytic hydrogenation of diene polymers: kinetic analysis and mechanistic studies on hydrogenation of

styrene–butadiene copolymers in presence of $RhCl(PPh_3)_3$, 193
'Electrophilic activation of C–H bonds of alkanes with supported Rh(H)(allyl) species revisited: reaction of H_2 with bis-allyl Rh grafted to silica surface':
comments on, 373
response to comments on, 374
new polymer-bound Rh carbonyl cluster catalysts containing two functional ligands for hydrohydroxymethylation of olefins, L27
vapour phase hydroformylation of ethylene and propene catalysed by containing Al pillared smectite clay, 75
Ruthenium
catalytic epoxidation of olefins by effective monooxygenase system: Ru(III)–EDTA–ascorbate–O_2, 361
homogeneous catalysis in water: catalytic hydrogenation of propionaldehyde with $(RuCl_2L_2)_2$, $RuHClL_3$, $RuH(OAc)L_3$, RuH_2L_4, $RuHIL_3$, $RuCl_2(CO)_2L_2$ and $[Ru(OAc)(CO)_2L)]_2$ ($=P(C_6H_4\text{-}mSO_3Na)_3 \cdot 3H_2O$): kinetic investigation of salt effect in water, 337
synthesis and characterization of Ru water-soluble complexes, 331
nitrosyl ethylenediaminetetraacetato Ru(III) – efficient oxygen atom transfer agent for oxidation of olefins by molecular O_2 and PhIO through ligand-mediated nitrosyl/nitro couple, 271
photosensitized reduction of N_2 by $Ru^{II}(bipy)_3^{2+}$ adsorbed on surface of $Pt/TiO_2/RuO_2$ semiconductor particulate system containing Ru^{III}–EDTA complex and L-ascorbic acid, 13
Ru carbonyl-catalysed deoxygenation by CO of *o*-substituted nitrobenzenes: synthesis of benzimidazoles, 283
Ru(III)–Schiff base complex-catalysed carbonylation of nitrobenzene to give phenylurethane, 139

Schiff base
Ru(III)–, complex-catalysed carbonylation of nitrobenzene to give phenylurethane, 139

Semiconductor
photosensitized reduction of N_2 by $Ru^{II}(bipy)_3^{2+}$ adsorbed on surface of $Pt/TiO_2/RuO_2$ semiconductor particulate system containing Ru^{III}–EDTA complex and L-ascorbic acid, 13
Silicon
bis(diphenylphosphino)methane complexes of Pd as catalysts for hydrosilylation of olefins by trichlorosilane, 167
determination of Mo=C bond energy in $Mo{=}CH_2$ carbene complexes on surface of photoreduced silica–molybdena catalysts based on calorimetric measurements, 1
'Electrophilic activation of C–H bonds of alkanes with supported Rh(H)(allyl) species revisited: reaction of H_2 with bis-allyl Rh grafted to silica surface':
comments on, 373
response to comments on, 374
formation of $Mo{=}CH_2$ carbene complex on surface of photoreduced silica–molybdena catalyst treated with 1,3,5-cycloheptatriene, 117
reaction of allyl acetates and ketene silyl acetals catalysed by Pd(0) complexes: cyclopropanation *vs.* allylic alkylation, 19
Smectite clay
Rh-containing Al pillared; vapour phase hydroformylation of ethylene and propene catalysed by, 75
Sulphur
acidic properties and stability of sulphate-promoted metal oxides, 127
chiral iron porphyrin-catalysed asymmetric oxidation of sulphides, 59
Surface
determination of Mo=C bond energy in $Mo{=}CH_2$ carbene complexes on surface of photoreduced silica–molybdena catalysts based on calorimetric measurements, 1
'Electrophilic activation of C–H bonds of alkanes with supported Rh(H)(allyl) species revisited: reaction of H_2 with bis-allyl Rh grafted to silica surface':
comments on, 373
response to comments on, 374

formation of $Mo{=}CH_2$ carbene complex on surface of photoreduced silica–molybdena catalyst treated with 1,3,5-cycloheptatriene, 117
importance of surface hydrogen concentration in enhancing activity of Co–Ni alloy catalyst for CO hydrogenation, 253
organometallic chemistry of Re: attempts to characterize surface carbene in metathesis of olefins with catalyst CH_3ReO_3/Nb_2O_5, L7
photosensitized reduction of N_2 by $Ru^{II}(bipy)_3^{2+}$ adsorbed on surface of $Pt/TiO_2/RuO_2$ semiconductor particulate system containing Ru^{III}–EDTA complex and L-ascorbic acid, 13

Thiophene rings
aromatic nucleophilic substitution on, 299

Tin
inhibition of formation and removal of adsorbed species in isobutene–methacrolein SnO_2–Sb_2O_4 system, 307

Titanium
chemoselective hydrogenation of unsaturated carbonyl compounds over Groups 8 and 9 titania-supported metal catalysts, 243
photosensitized reduction of N_2 by $Ru^{II}(bipy)_3^{2+}$ adsorbed on surface of $Pt/TiO_2/RuO_2$ semiconductor particulate system containing Ru^{III}–EDTA complex and L-ascorbic acid, 13
ring-substituted cyclopentadienyltitanium complexes $(C_5H_4CR^1R^2Ar)_2TiCl_2$: efficient catalyst precursors for stereoselective conversion of terminal olefins to (2*E*)-alkenes, L15

Urethane
Ru(III)–Schiff base complex-catalysed carbonylation of nitrobenzene to give phenylurethane, 139

Water
homogeneous catalysis in:
catalytic hydrogenation of propionaldehyde with $(RuCl_2L_2)_2$, $RuHClL_3$, $RuH(OAc)L_3$, RuH_2L_4, $RuHIL_3$, $RuCl_2(CO)_2L_2$ and $[Ru(OAc)(CO)_2L)]_2$ ($L = P(C_6H_4\text{-}mSO_3Na)_3 \cdot 3H_2O$): kinetic investigation of salt effect in water, 337
synthesis and characterization of Ru water-soluble complexes, 331
new mechanism for electron transfer between methyl viologen radicals and, 67

Zirconium
hydrogenation and isomerization of olefins with diphenylphosphinomethyl hydride zirconium, $[Cp_2ZrH(CH_2PPh_2)]_n$, selective homogeneous catalyst, 47